

SINGLE-PHASE BRIDGE RECTIFIER VOLTAGE RANGE 200 to 1000 Volts CURRENT 1.0 Ampere

FEATURES

- *Glass Passivated chip junction
- *High forward surge current capability
- * Ideal for printed circuit board
- *High temperature soldering guaranteed: 260°c/10 second at 5 lbs. (2.3kg) tension

MECHANICAL DATA

*Case: Transfer molded plastic

* Epoxy: UL94V-O rate flame retardant

 $* Terminals: Lead Solderable \ Per \ MIL-STD-202$

method 208

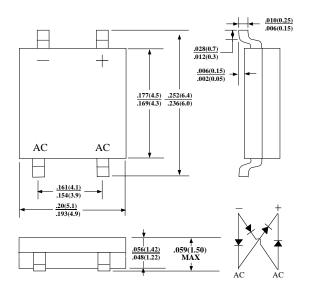
*Polarity: As Marking on Body *Mounting Position: Any

*Weight: 0.04 ounce, 1.0 gram



* In compliance with EU RoHs 2002/95/EC directives

ABS



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- * Rating at 25°C ambient temperature unless otherwise specified
- * Single phase,half wave. 60Hz, resistive or inductive load.
- * For capacitive load derate current bh 20 %

Characteristic	Symbol	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	140	280	420	560	700	٧
Average Rectifier Forward Current (Note 1) @ T _A =50°C	I _{O(AV)}	1.0					Α
Non-Repetitive Peak Surge Current 8.3 ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30					А
Forward Voltage (per element) (I _F =1.0 Amp)	V_{FM}	0.95					V
Peak Reverse Current (Rated DC Voltage, T _C = 25°C) (Rated DC Voltage, T _C = 125°C)	I _R	0.5 20.0					mA
Rating for Fusing(t<8.3 ms)	l ² t	10					A ² s
Typical Junction Capacitance per element (Note2)	CJ	25					pF
Typical Thermal Resistance (note 3)	$R_{ heta JL} \ R_{ heta JA}$	28.0 88.0					°C/W
Operating and Storage Temperature Range	T _J , T _{stg}	-65 to +150					$^{\circ}\!\mathbb{C}$

Note: 1 Lead maintained at ambient temperature at a distance of 9.5 mm from the case.

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
- 3. Mounted on P.C. Board with 5.0mm2 (.013mm thick) copper pad areas.



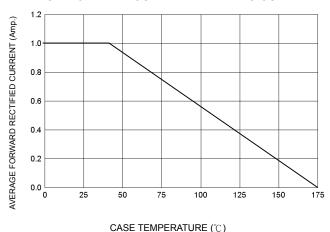
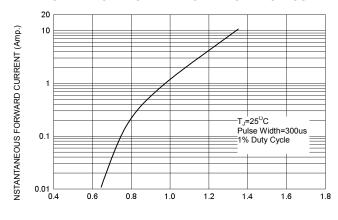


FIG-2 TYPICAL FORWARD CHARACTERISITICS



FORWARD VOLTAGE (Volts)

FIG-3 PEAK FORWARD SURGE CURRENT

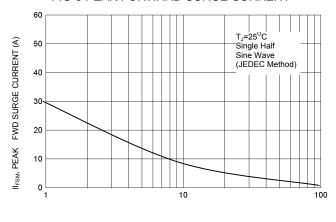
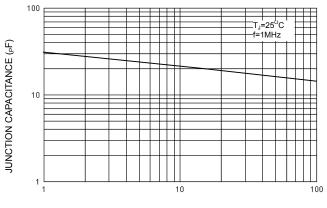


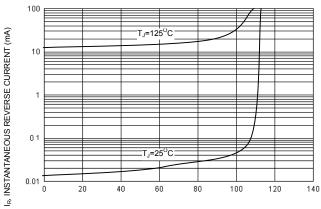
FIG-4 TYPICAL JUNCTION CAPACITANCE



NUMBER OF CYCLES AT 60 Hz

REVERSE VOLTAGE (Volts)





PERCENT OF RATED REVERSE VOLTAGE (%)